



# DrugWatCh

# Contents

- ▶ Introduction
- ▶ Architecture Flow
- ▶ Usage Demo Screens
- ▶ Application Screens
- ▶ Integrated Developer Tools

# Introduction

- ▶ In the U.S., the FDA makes sure medicine is rigorously tested for safety and effectiveness.
- ▶ Once on the market, the FDA, along with the makers of the drug, continue to monitor the medicine for any unforeseen problems.
- ▶ Should an issue develop, or the safety of a medication come into question, a recall may be initiated. Not everyone is educated about drug recalls in the market.
- ▶ We are proposing a mobile application *DrugWatch* that will scan the medicine bottle and search the FDA database to determine if the scanned drug is recalled or not.



# Architecture Flow

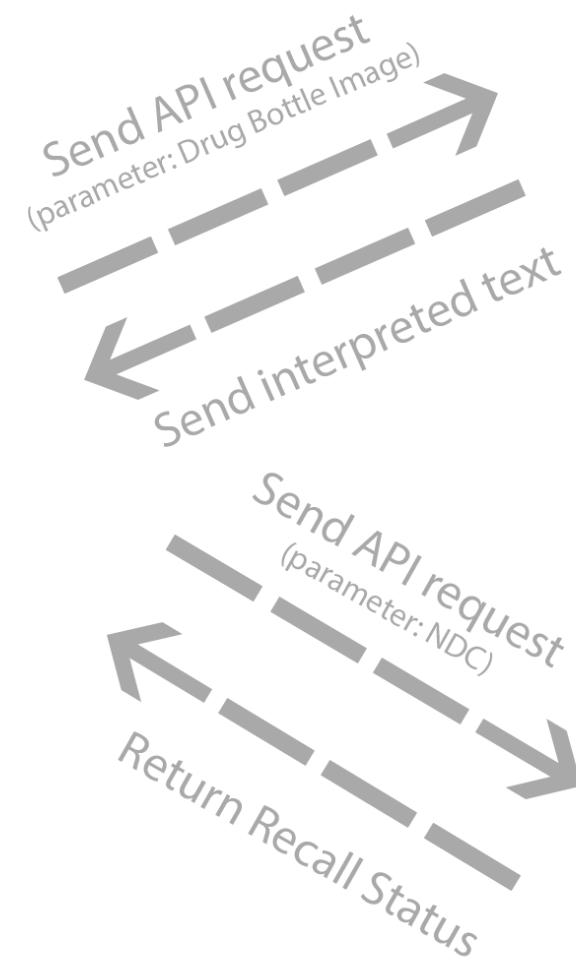


Scan Drug Bottle

Show Recall Status



Mobile Device



Google Cloud Platform



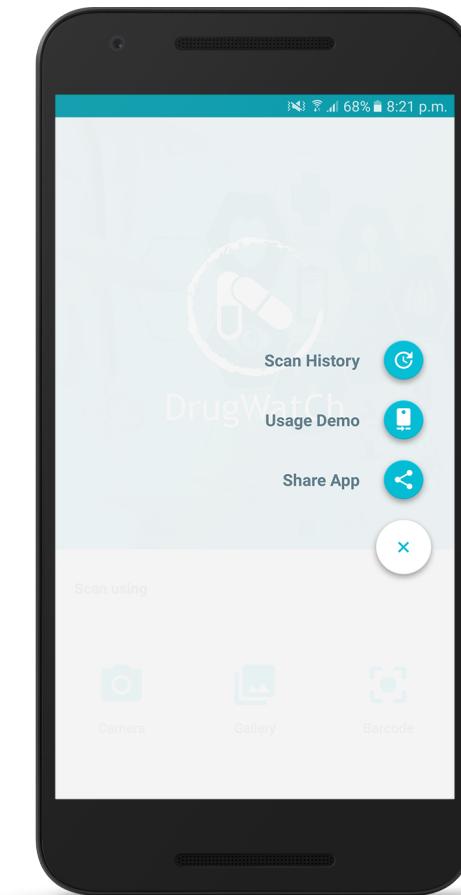
Cloud Vision API

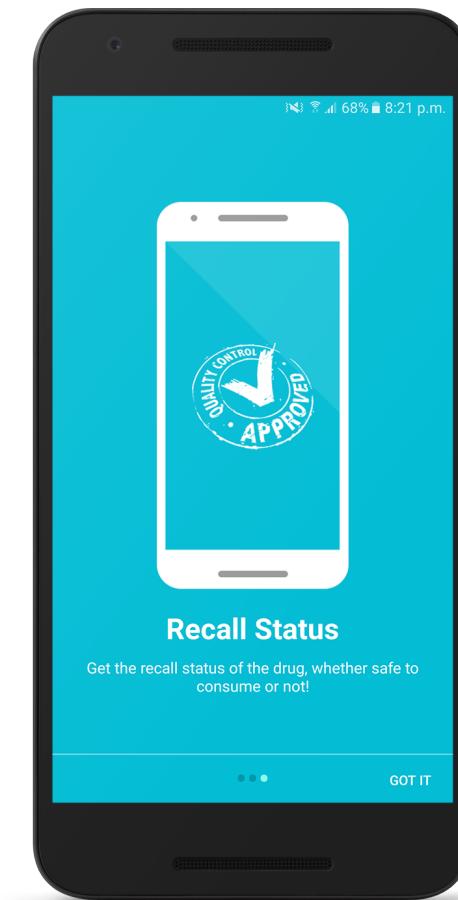
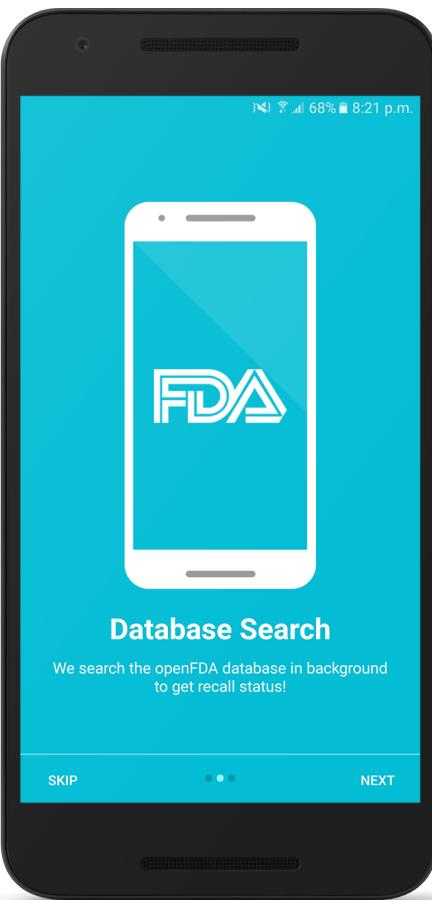
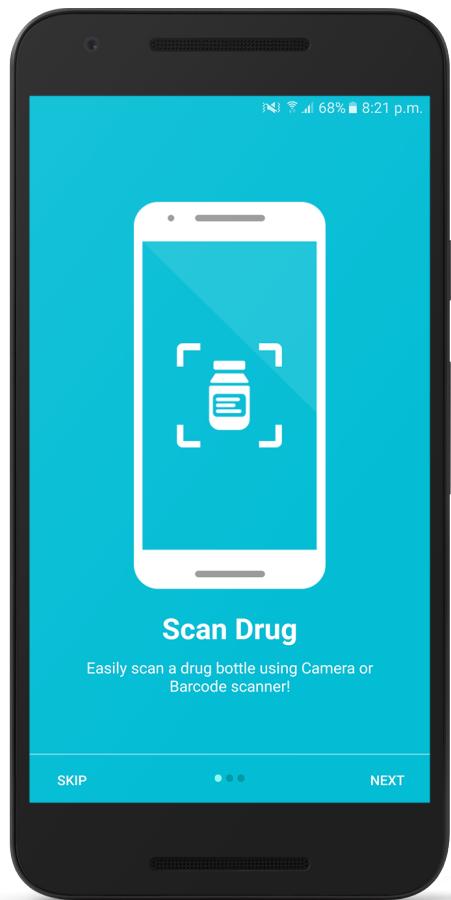
openFDA  
open.fda.gov

# Usage Demo Screens

# Usage Demo

- ▶ Usage Demo provided when you first install the app
- ▶ Step by step explanation about how to use the app.
- ▶ Simple 3 step process.
- ▶ Can view the demo anytime by Clicking Options-> Usage Demo





# App Screens

# DrugWatch

- ▶ DrugWatch is a simple to use android application that allows users to check if the drug they are consuming is Recalled or not.
- ▶ Key Features:
  - Accessible On-the-Go
  - User Friendly
  - Simple Scanning Options



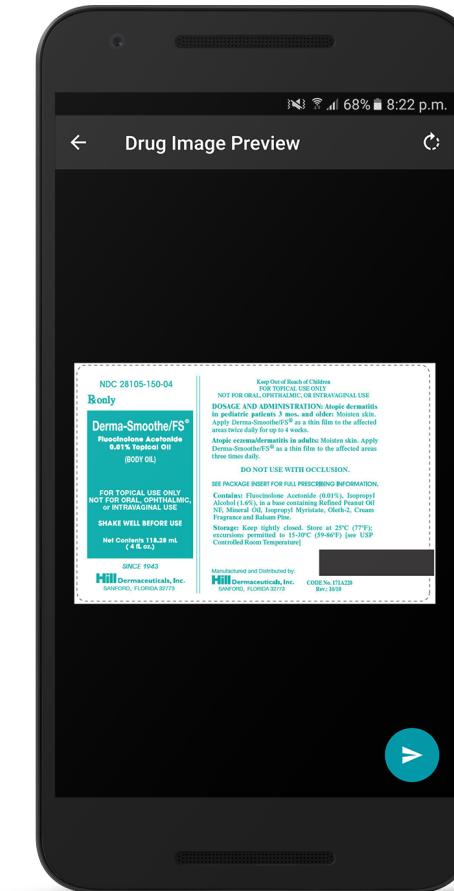
# Scan Options

- ▶ National Drug Code (NDC) can be scanned using one of the following options:
  - Camera
  - Gallery
  - Barcode



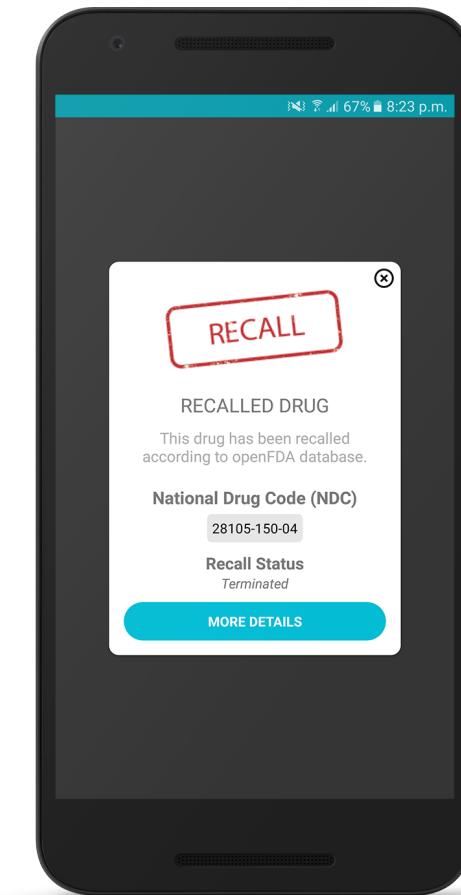
# Image Preview

- ▶ Captured image of NDC can be previewed before submitting.
- ▶ The image can be rotated if required.



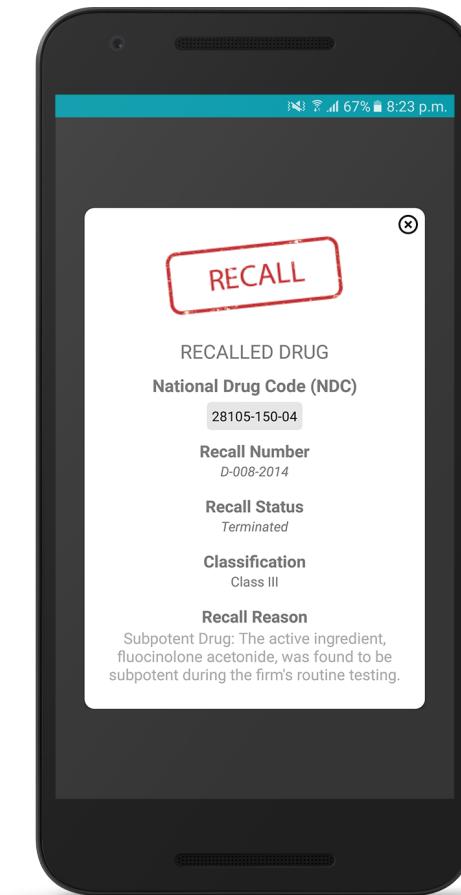
# Recalled Drug

- ▶ If the National Drug Code (NDC) is found in openFDA database, then a RECALL status is displayed to the user.
- ▶ Recall Status from one of the following is also shown to the user:
  - Terminated
  - Ongoing
  - Completed



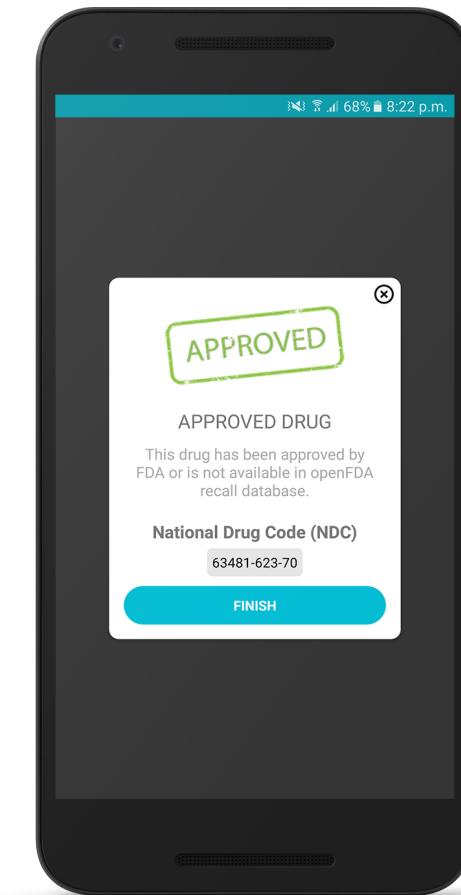
# Recalled Details

- ▶ More details can be viewed for a Recalled drug.
- ▶ The details shown are:
  - NDC
  - Recall Number
  - Recall Status
  - Classification
  - Recall Reason



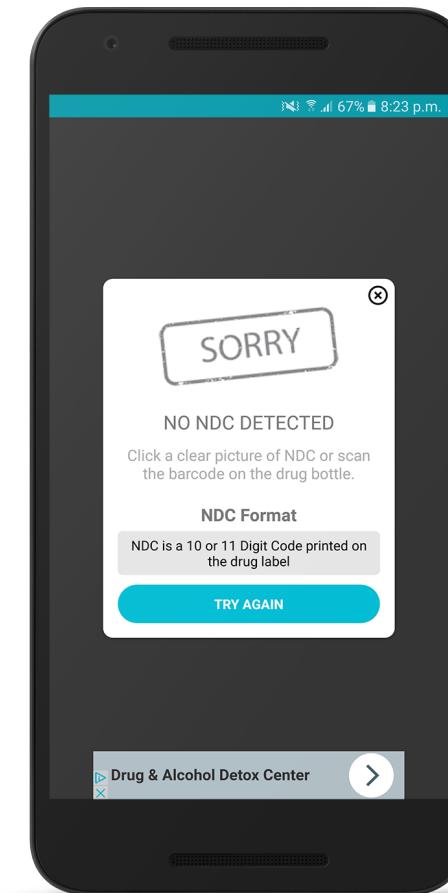
# Approved Drug

- ▶ If the National Drug Code (NDC) is not found in openFDA database, then APPROVED status is displayed to the user.
- ▶ This means that the drug is safe to consume and it has not been recalled.



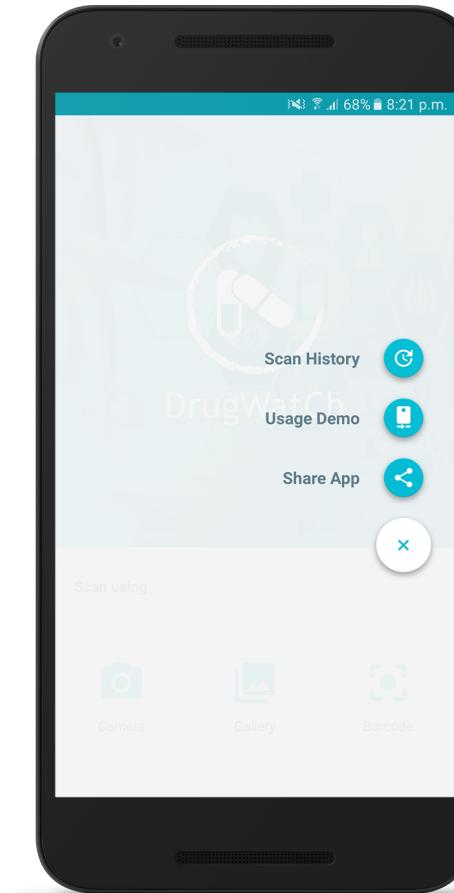
# Not a Drug

- ▶ If the user scanned a random object or NDC was not detected from the image, then SORRY message is displayed to the user.
- ▶ User is asked to try again using same scanning method or try some other method.



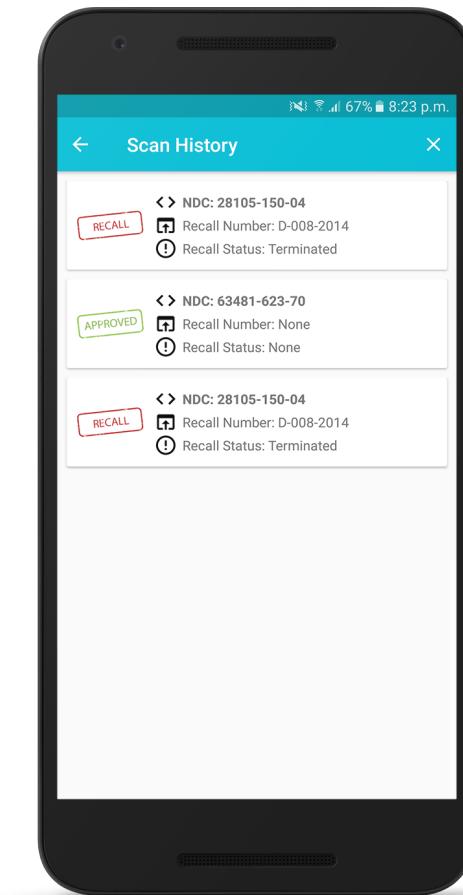
# Options

- ▶ The options popup in application has the following to select from:
  - Scan History
  - Usage Demo
  - Share App



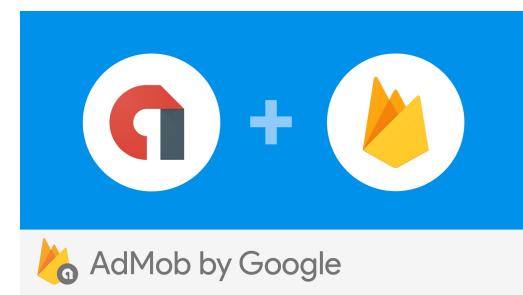
# Scan History

- ▶ All the previous scans by user are listed here with required details.



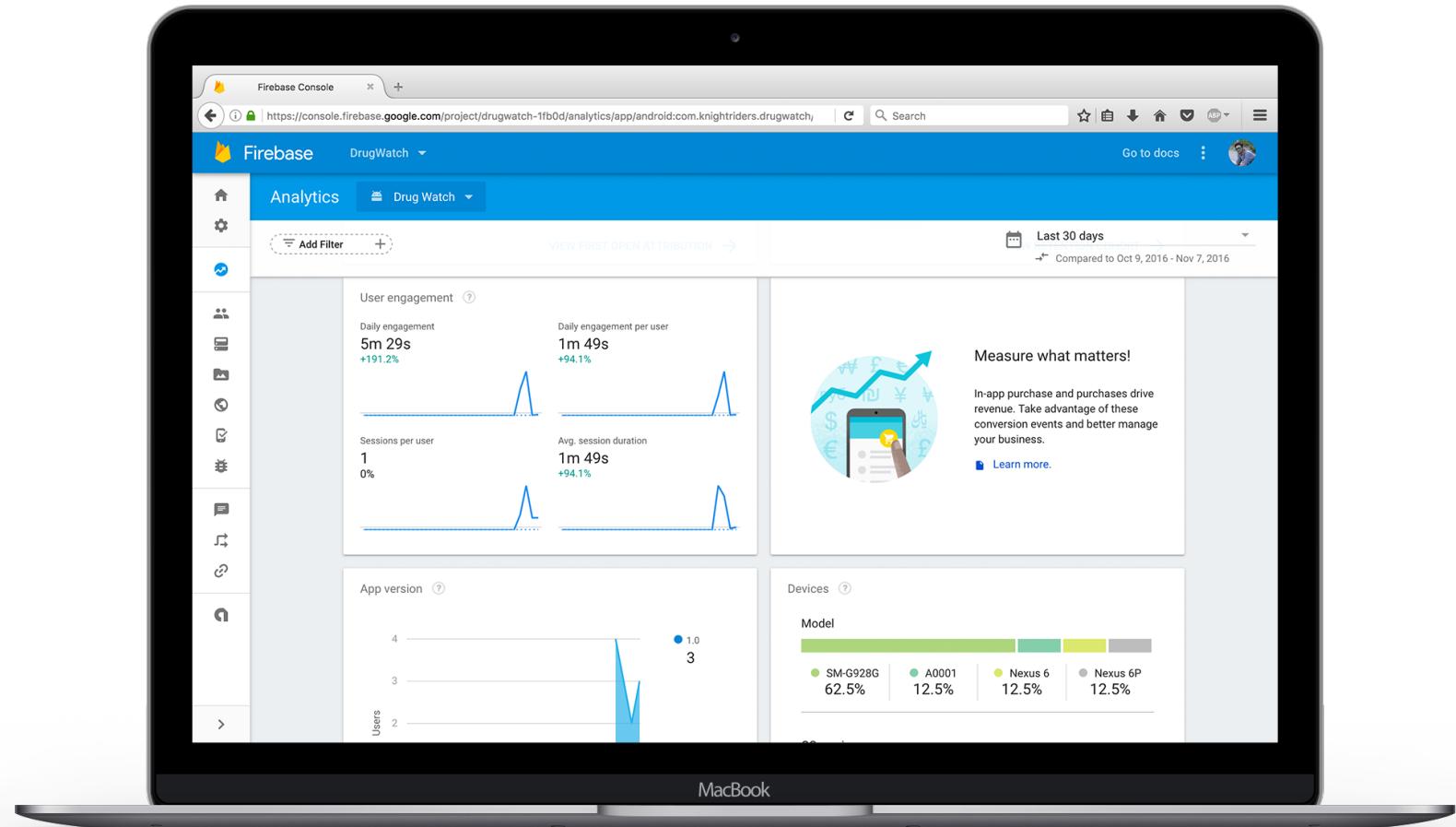
# Integrated Developer Tools

- ▶ Implemented Analytics and Remote Config Using Firebase.
- ▶ Firebase *Analytics* helps you gain insight into your users from ad click to app usage.
- ▶ Firebase *Remote Config* lets you change the behavior and appearance of your app without requiring users to install an app update. Updating the app for minor changes becomes hassle free for the users. Can be used to: Change the app background on Disease awareness days to keep user up to date. Remove any spelling/Grammatical mistakes or any offensive words used in app if any.
- ▶ Used AdMob for monetization purpose.
- ▶ *AdMob* gives you the flexibility to choose Ad type and Ad Genre. We have selected single banner Ads related to Health Care for optimum User Experience.



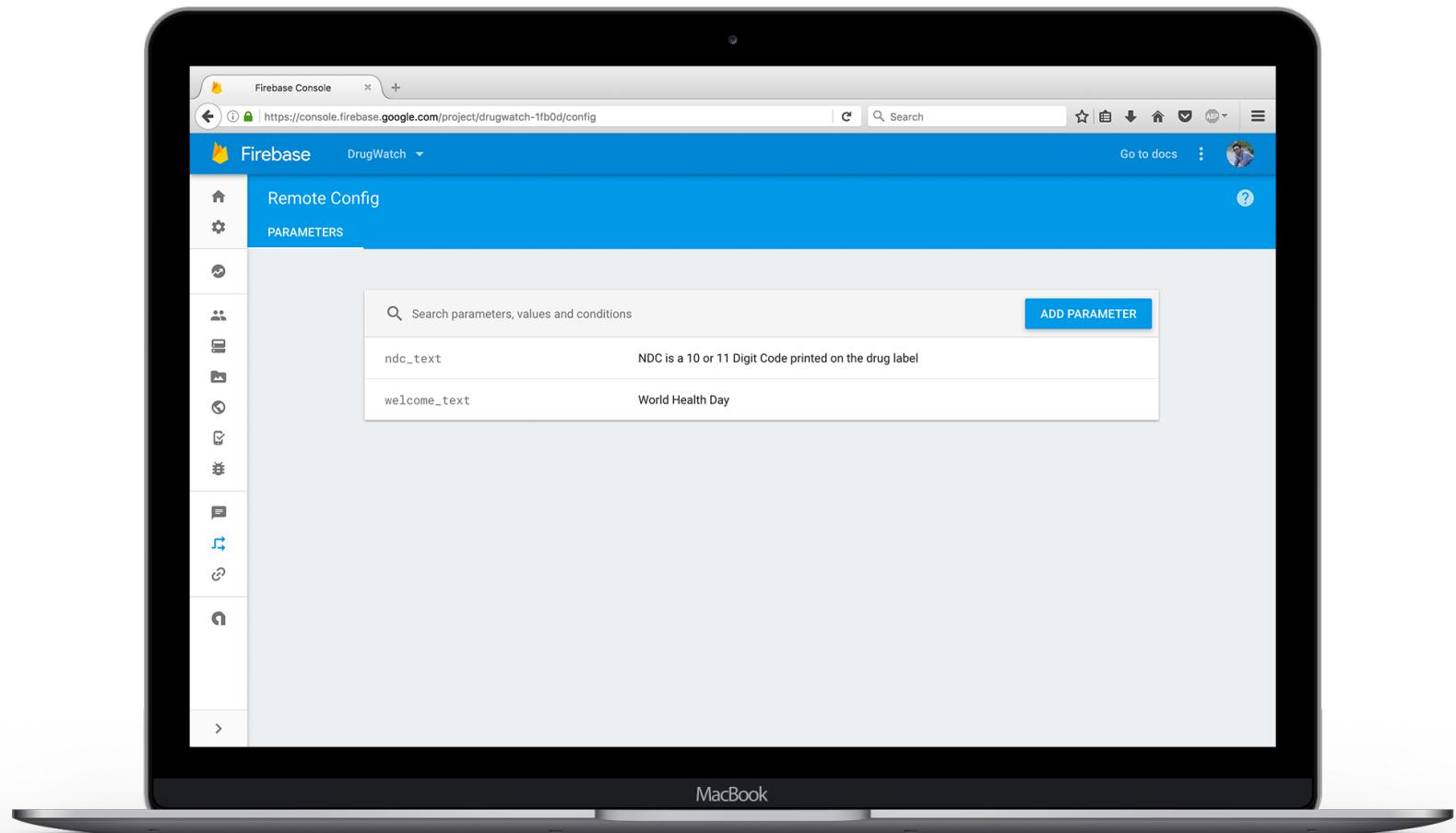
# Analytics

- ▶ Get insights about user interaction and user engagement with the application.



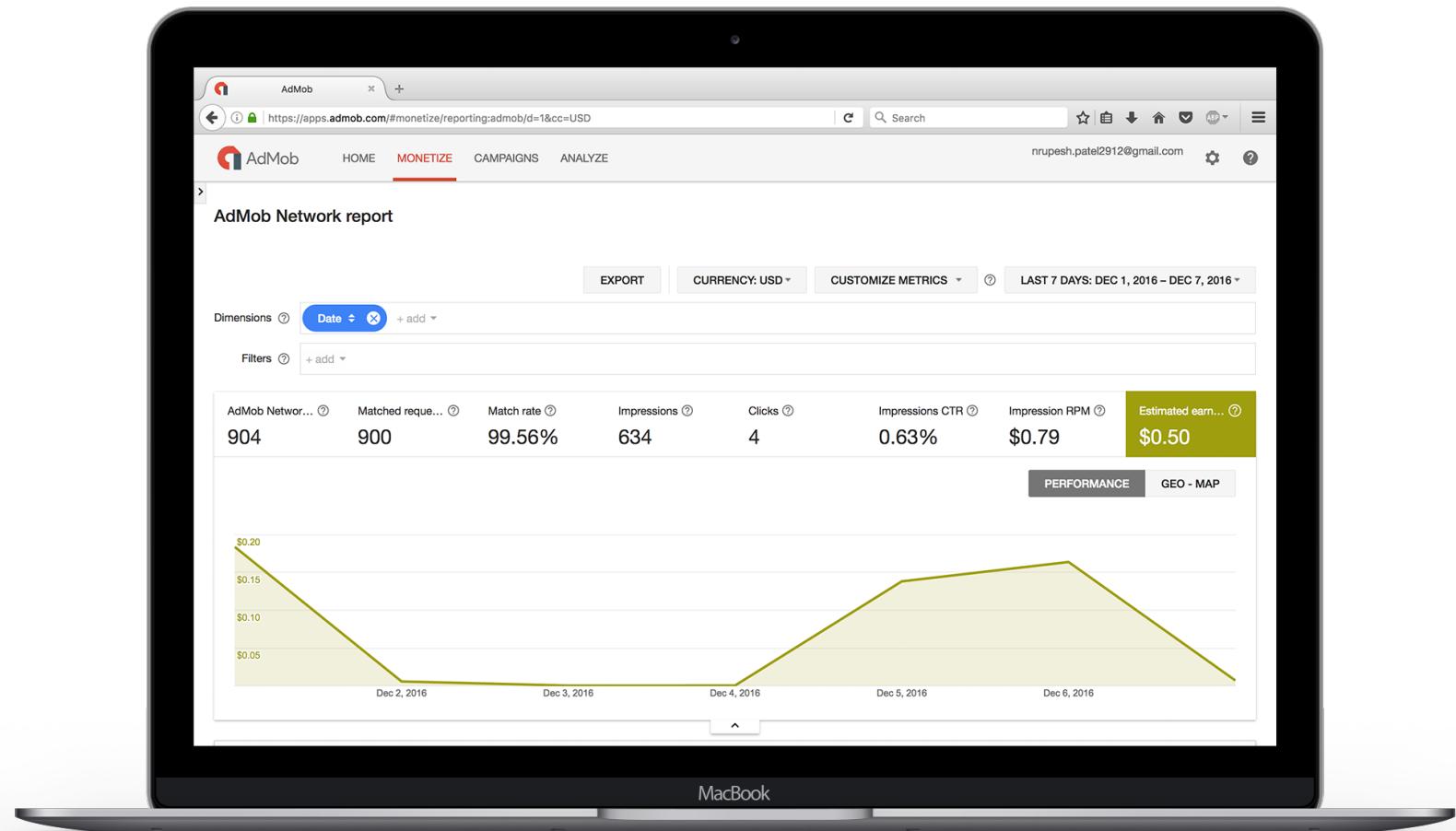
# Remote Config

- ▶ Configure various parameters in the application remotely from the server.



# AdMob

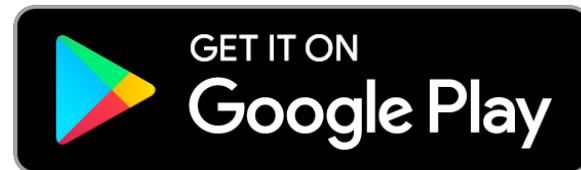
- ▶ Generate revenue from single banner Ads which don't hinder user interaction.



# Beta Testing

# PlayStore Beta Testing

- ▶ DrugWatch is available on PlayStore for beta testing.
- ▶ First click on the PlayStore button given here and opt in for testing. Then download the app from PlayStore and contribute towards a healthy society with your valuable feedbacks.



# Team Members

**Arpita Dixit** : 010953267

**Aditi Shetty** : 011443016

**Suraj Khurana** : 011464427

**Nrupesh Patel** : 011425271



# THANK YOU

Health Care  
Doctor  
Hospital  
Pharmacist  
Nurse  
Dentist  
First Aid  
Surgeon  
Emergency

MEDICAL



Health Care  
Doctor  
Hospital  
Pharmacist  
Nurse  
Dentist  
First Aid  
Surgeon  
Emergency

MEDICAL

Health Care  
Doctor  
Hospital  
Pharmacist  
Nurse  
Dentist  
First Aid  
Surgeon  
Emergency